

WPI

TI - Metallic mould for resin and rubber - contg. hard coating film formed on surface of steel, aluminium@ alloy, copper@ alloy, etc.

AB - J05169459 Metallic mould contains a hard coat film formed on the surface of steel, an Al alloy, a Cu alloy, etc. At least the outermost surface of the hard coat film is a diamond-like carbon film or hard carbon film contg. 1-20 atom % of fluorine. Specific metallic mould comprises a base of steel, an Al alloy, or a Cu alloy, a hard coat film as an intermediate layer, and the diamond-carbon film or the hard carbon film. Pref. the intermediate layer is a diffusion-hardening treatment film by carbonisation, nitriding, or fluorination, or a Cr plating or a Ni plating.

- USE/ADVANTAGE - The metallic mould and parts for moulding have high release properties comparable to those of PTFE and as high abrasion resistance as diamond(Dwg.0/8)

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PR - JP19910356260 19911224

PA - (SUME) SUMITOMO ELECTRIC CO

MC - A11-B01 M13-E02

DC - A14 A32 M13

IC - B29C33/38 ;B29C33/56 ;C23C14/06

AN - 1993-252170 [32]

PAJ

TI - MOLD FOR RESIN OR RUBBER, PART OF RESIN OR RUBBER MOLDING APPARATUS AND METHOD FOR MOLDING RESIN OR RUBBER

AB - PURPOSE:To provide a mold and a part used in the molding of a resin or rubber and excellent in releasability and abrasion resistance by improving problems such that a PTFE coated one has good releasability but no abrasion resistance and a hard metal or ceramic coated one is excellent in abrasion resistance but inferior to releasability.

- CONSTITUTION:The base material of a mold and a part is coated with a hard carbon film or diamond like carbon film having 1-20 atomic % of fluorine added thereto. Releasability is improved because of fluorine. Abrasion resistance is good because of the hard carbon film or diamond like carbon film. It is further pref. to provide a metal or ceramic layer having high hardness as an intermediate layer.

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GR - M1499

PA - SUMITOMO ELECTRIC IND LTD

IN - OHARA HISANORI; others: 01

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